

CR-20/53

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CFSTI TT 68-50430

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Vol III, 1961, 304 pp.
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1961, 411 pp. 9224668
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NTC 69-12487-20H

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May 63

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NLL M. 3817

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Order from ATS \$8.25

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TT-64-12681

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- II. Budarin, L. I.
- III. ATS-79(71R
- IV. Associated Technical
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Office of Technical Services

Surface Ionization of Iodine and Sodium on an
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Sci - (Geophysics)

Oct 62

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pp 113-116.

*JPRS

Sci - Earth Sci & Astron
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FTD-TT- 63-709

Sci - Earth Sci
Orig 63

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Legkoi Promyshlennosti. Moscow. Nauchnye., No 13,
1960, pp 48-51.
NPG-71-16223-111

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SYSTEM. [1962] 18p.
Order from K-H \$22.50

K-H 3789

Trans. of Tekhn[ologicheskii] Inst[itut] im[eni]
Leningrad[skogo] Soveta. Trudy (USSR) 1946, v. 12,
p. 152-164.

DISCRIPTORS: •Fused materials, •Electrical
conductance.

(Chemistry--Physical, TT, v. 9, no. 11)

63-12955

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II. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

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Preparation of Azelaic and Sebacic Acids by
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Oil and of the Undecylenic Fraction of
the Products of the Pyrolysis of Methyl
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Institut Imeni Leningradskogo Soveta, No 12,
1957, pp 30-38.

ATS-26L30R

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THE INTERACTION OF OXYGEN WITH THE CAR-
BON OF A FUEL. [1964] 8p 6 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10994

Trans. of Tekhnologicheskii Institut Imeni Leningrad-
skogo Soveta Trudy (USSR) 1959, v. 51, p. 46-51

(Materials - Fuels, TT, v. 12, no. 2)

TT-64-10994

I. Kokurin, A. D.
II. Rozental' D. A.

Office of Technical Services

61-27056

RESEARCH ON THE CHEMISTRY AND TECHNOLOGY OF BINDERS (Raboty v Oblas'ti Khimii i Tekhnologii Vyzhivshchies' Veshchestv) tr. by G. L. Cairns. Feb 61 [39], p. 28 refs. USSR Library Communication no. 1037

Order from OZS or SLA \$3.00

61-27056

Trans. of Tekhnicheskii Institut Inzhn Leningradskogo Soveta. Study USSR 1960, no. 51, p. 54, 63, 87, 88, 93, 113

DESCRIPTORS *Binders, *Cements, Gypsum, Sulfates, Fluorine, Minerals, Silicates, Chemical waste, Industrial production, Phosphates, Magnesium compounds, Calcium compounds

Contents:

Comparative investigation of the mineralizing action of fluorine-containing wastes of the superphosphate (Engineering-Chemical, TT, v. 1, no. 7) (over)

I. LC-1042

II. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

Okorokov, S. D., Golyuko-Wolfson, S. L., and
Korneev, V. I.
CHANGE IN STRENGTH OF DICALCIUM SILICATE AS
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ADMIXTURE. [1962] 7p. 4 refs.

Order from OTS or SLA \$1.10

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Trans. of [Tekhnologicheskii Institut Imeni Leningrad-
skogo Soveta]. (Trudy USSR) 1960, no. 56, p. 93-98.
Another trans. is available from OTS or SLA \$3.60 in
SI-27056, LC-1042, Feb 61 [39]p.

DESCRIPTORS: *Calcium compounds, *Silicates, Syn-
thesis, Bonding, Stabilization, *Binders, Cements.

(Engineering--Chemical, TT, v. 9, no. 3)

(over)

62-14258

I. Okorokov, S. D.
II. Golyuko-Wolfson, S. L.
III. Korneev, V. I.

Office of Technical Services

The Nature of the Connection Between the Rate of Heat Removal and Moisture Migration in the Quick-Freezing of Food-stuffs, by G. B. Chizhov, 2 pp.

RUSSIAN, per, Trudy Tekhnologicheskoy Institut Khlozil'noy Prom, Vol X, 1956, p 33.

SLA 59-1903

Sci

OTS, Vol III, No 6

Sep 60

62-13141

Mazyukovich, F. V.
THE CONDENSATION OF VAPORS IN THE PRESENCE OF NON-CONDENSABLE GASES (Kondensatsiya Parov v Prisutstvi Nekonkondensiruyemykh Gazov) tr. by G. Fulford. Aug 60, 6p. 6 refs. [DSIR NLL] M 4294.

Order from OTS or SLA \$1.10

62-13141

Unedited trans. of Tekhnologicheskii Institut.
Kholodil'noi Promyshlennosti, Trudy (USSR) 1956,
v. 11, p. 109-114.

DESCRIPTORS: *Vapors, *Condensation, *Gases, Mixtures, Physical properties, Impurities, Boundary layer, Heat transfer, Ammonia, Molecular weight, Reynolds number.

The process of condensing a vapor from a vapor/gas mixture depends on the physical properties of the gaseous impurity. The process of mass transfer at (Mechanics-Aerodynamics, TT, v. 7, no. 11) (over)

I. Mazyukovich, F. V.
II. DSIR NLL M. 4294

Office of Technical Services

62-13139

Mazyukovich, F. V.

ON THE (GAS-) EJECTING PROPERTIES OF THE
SURFACES OF FLOWING LIQUID FILMS (Ob
Ezhekrulyushchikh Svoistvakh PoverkhnostiStekayushchei Zhidkostnoi Plenki) tr. by G. Fulford.
Aug 60, 10p. 4 refs. [DSIR NLL] M 4292.

Order from OTS or SLA \$1.10

62-13139

I. Mazyukovich, F. V.
II. DSIR NLL M 4292Unedited Trans. Tekhnologicheskii Institut
Kholodil'noi Promyshlennosti. Trudy (USSR) 1956,
v. 11, p. 115-123.DESCRIPTORS: Gases, Ejection, Surfaces, *Liquids,
Fluid flow, Velocity, Heat transfer, *Films.

The quantity of air ejected by the surface of a moving liquid is directly proportional to the surface of contact, and is determined by the velocity of the liquid at the outer surface, and also depends on heat transfer between the surface and the neighboring gas. The lifting forces created during heat transfer have a considerable

(Chemistry--Physical. TT, v. 7, no. 11) (over)

Office of Technical Services

A New Empirical Relationship for Determination of
the Friction Factor λ in Pipes Handling Flows of
Final Molasses, by Z.S. Shlipchenko.
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1962, no.25, pp. 41-44.
ATS-98R78R

Physics
Aug 66

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Study of the Possibility of Obtaining Gas Turbine
Fuel From the Products of Catalytic Cracking and
Cooling, by G. I. Svetozarova, V. V. Zhdanova,
9 pp.

RUSSIAN, per, Trudy Tekh Pererabotki Nefti i
Gaza, Groznenskiy Neftyanoy Nauchno-Issled Inst,
No 12, 1963, pp 61-68. 9698892
FTD-TT-64-595

Sci - Engr
Feb 65

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61-23398

Borodianskii, M. Ya.
ONE PROBLEM OF THE STRENGTH OF A SHELL
REINFORCED BY RIBS (Ob Odnoi Zadache Ustoiichi-
vosti Obolochki Usilennoi Rebrami). Oct 60 [4]p. 1 ref.
TIL/T. 5157; [DSIR LLU] M. 2820; AD-246 824.
Order from OTS or SLA \$1.10 61-23398

Trans. of Tekhnologicheskiy Institut Pishchev
Promyshlennosti. ~~Trudy~~ (USSR) 1956, v. 16,
p. 225-226.

DESCRIPTORS: *Conical bodies, Stability, Mathemat-
ical analysis, Design, Stresses, Tests, *Structural
shells.

It is shown that the fitting of ribs and rings to conical
envelopes renders the problem of calculating stability
less relevant than calculation of the strength. Calcula-
tions, qualitative evaluations and experiments showed
(Engineering--Aeronautical, TT, v. 6, no. 9)

- I. Borodianskii, M. Ya.
- II. TIL/T. 5157
- III. Ministry of Aviation
(Gr. Brit.)
- IV. DSIR LLU M. 2820
- V. AD-246 824

185541

Office of Technical Services

62-12858

Fedyakin, N. N.
SURFACE TENSION OF LIQUIDS IN MICRO-CAPIL-
LARIES (Poverkhnostnoe Napyazhenie Zhidkosti v
Mikro-Kapillyarah) tr. by V. Topchy. 1961, 9p.
13 refs. NRCC Technical Trans. 998.
Order form NRCC 30.80 NRCC C-3882

Trans. of Tekhnologicheskii Inst (ing) Pishchery
Promyshlennosti, Trudy (USSR) 1957, no. 8,
p. 37-41.

DESCRIPTORS: *Capillary tubes, Liquids, *Surface
tension, Water, Partial differential equations.

(Chemistry--Physical, TT, v. 8, no. 1)

- I. Fedyakin, N. N.
- II. NRCC TT-998
- III. NRCC C-3882
- IV. National Research Council
of Canada

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New Data on the Feeding of some Cyclopidae,
by N. A. Dzyuban, 8 pp.
RUSSIAN, per, Tr Tekh Inst Rybn Prom i Khoz,
1939, pp 163-172.⁺
NRC C-4631

Sci - Biol
Jul 66

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Mathematical Conditions of Physical
Feasibility in Invariant Automatic and
Gyroscopic Systems, by S. A. Babushkin, 33pp.
RUSSIAN, per, Trudy Teoriya Invariantnosti
v Sistemakh Avtomaticheskogo Upravleniya
Vtorogo Vsesoyuznogo Sovetskogo
Sostoyavshegosya v Kiyev, 20 May-1 Jun 1962,
pp 65-83, 1964. P100102267
FTD MT 65-565

Sci. Abstr.

Spherical Shell Weakened by Two Unequal Circular
Holes, by G. N. Savin, G. A. Van Fo Py, et al.

9 pp.

RUSSIAN, per, Trudy Teorii Plastin i Obolochek, II
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Dept of Navy Tr 4592/DIAB Tr 320

Sci-Engr
May 66

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Reactions of Tertiary Amines with Epichlorohydrin,
by F. T. Shostak
RUSSIAN, rpt, Teoriya i Praktika Ionnoogo Obmena.
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*Erosion, Mathematical analysis.

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 analysis.

A general formula was derived, using dimensional
 analysis, for the solid flux of a "fluid + granular
 material" mixture and is applied to the particular
 case of snow-bearing air flow. (Author)

(Earth Sciences--Frost, TT, v. 11, no. 7)

TT-64-12578

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DESCRIPTORS: *Snow, Drift, Control, Siberia,

The paper gives the results of experimental investigations on the transfer and deposition of snow at barrier and methods are suggested for increasing the efficiency of snow control measures. (Author)
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DESCRIPTORS: *Snow, *Wind, *Structures, Design.

This report notes the defects of existing snow fences
and a sound argument is presented for improving the
construction of fences with reduced density of the
lower part and which do not have to be moved so often.

(Author)

(Earth Sciences--Frost, TT, v. 11, no. 7)

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DESCRIPTORS: *Snow, Drift, Control, *Structures,
Design, Effectiveness.

The paper notes the defects in the operation of existing
snow fences and suggests ways of improving their con-
struction and methods of arranging them on portions of
roads that are subject to extensive snowdrifting.

(Author)

(Engineering--Civil, TT, v. 11, no. 6)

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